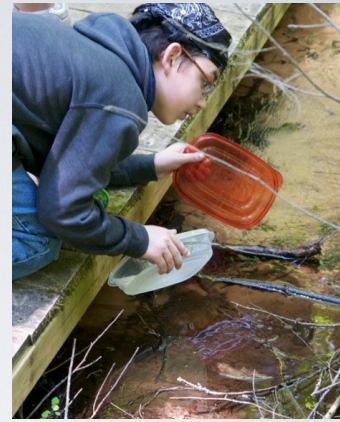
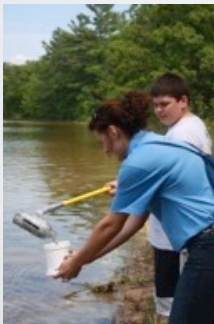
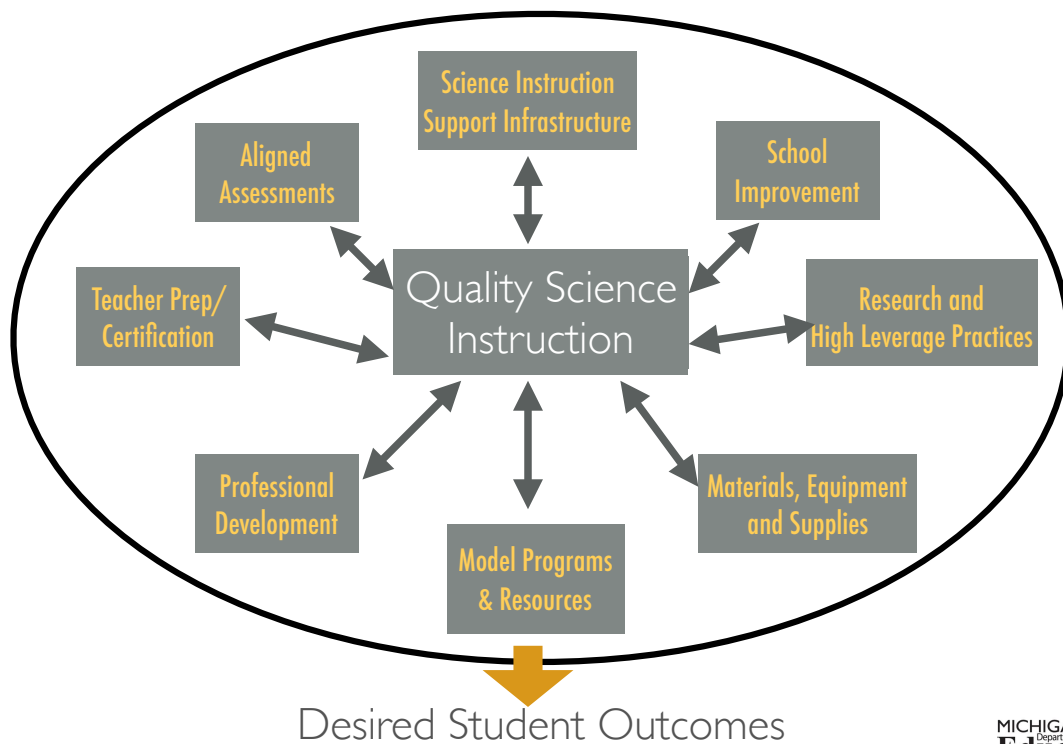


Adoption of Michigan Science Standards

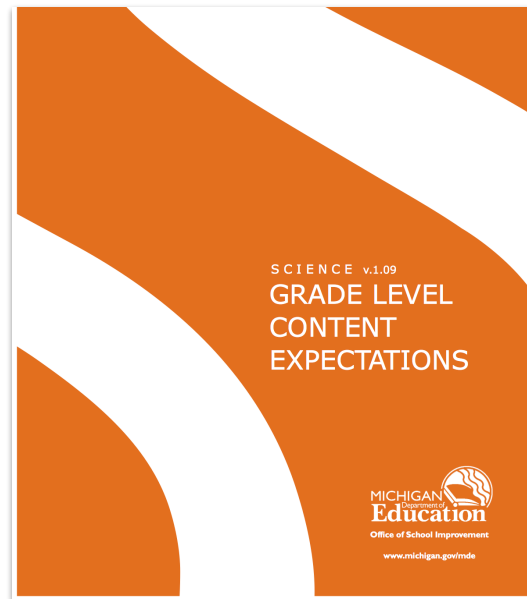


ACHIEVING THE VISION

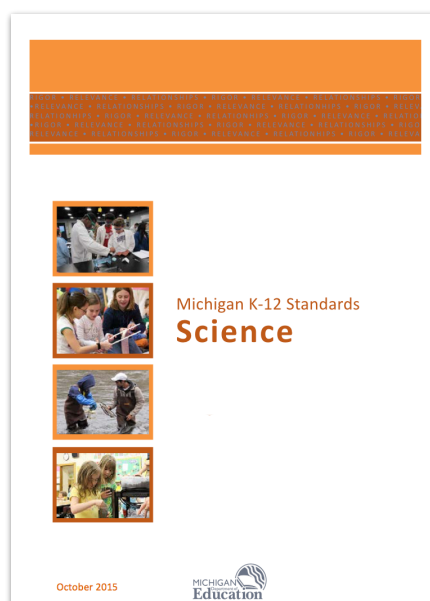


CURRENT STANDARDS

- Approved in 2005
- K-7 Grade Level Content Expectations (GLCEs) and High School Content Expectations (HSCEs)
- Followed by Companion Documents and topic-based mapping tools for support



PROPOSED STANDARDS



- Performance expectations for students in Grades K-12
- Coding of standards
- Separate guidance document addresses details and connections for educators and assessment design

PUBLIC INFORMATION / FEEDBACK

Public Information Sessions

- Sault Ste. Marie - Eastern UP ISD (Aug 26)
- Marquette - Northern Michigan University (Aug 27)
- Detroit - Michigan Science Center (Sept 1)
- Mount Pleasant - Central Michigan University (Sept 3)
- Grand Rapids - Gerald R Ford Museum (Sept 14)
- Battle Creek Math/Science Center (Sept 17)
- Traverse City - TBAISD (Sept 21)
- Flint - Genesee ISD (Sept 28)
- Lansing - Michigan Historical Center (Sept 30)
- Ypsilanti - Eastern Michigan University (Oct. 5)
- Rochester - Oakland University (Oct. 7)
- Plymouth-Canton Schools (Oct. 8)

Over 600 attendees

Conference Presentations and Meetings:

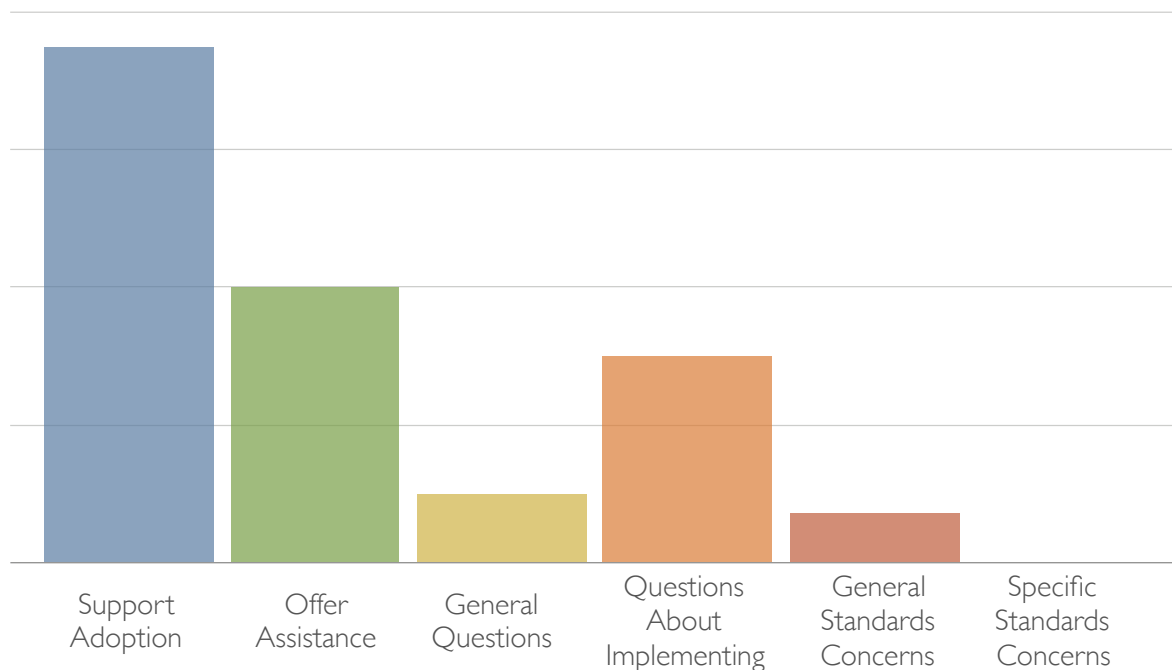
- Over 300 attendees in DAS Conferences, SIFN Workshops and others
- Several meetings with science education community
- Meetings with 46 legislators and Governor's Office

Public Comment Survey (and email):

- Nearly 800 survey responses at <http://mi.gov/science>

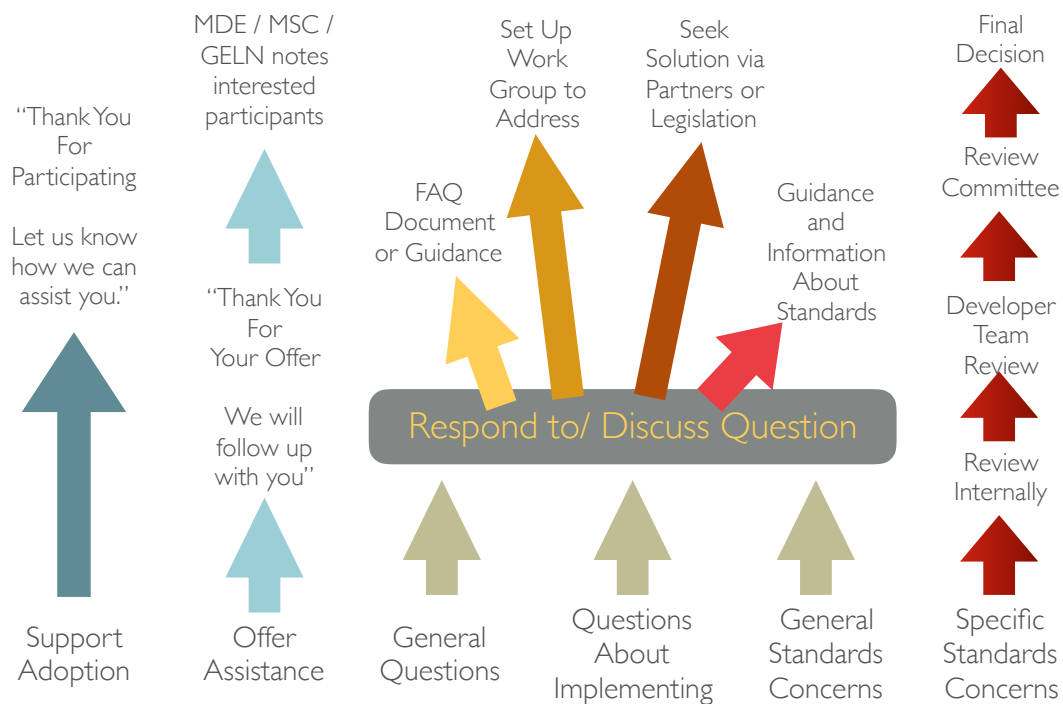
5

TYPES OF FEEDBACK AND COMMENTS



6

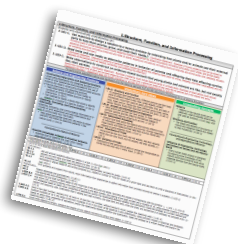
RESPONSE TO FEEDBACK



7

THEMES IN THE COMMENTS

Standards

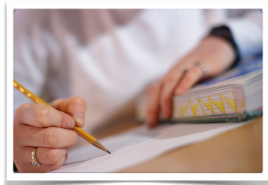


Role of Standards



Implementation

ASSESSMENT



TEACHER LEARNING

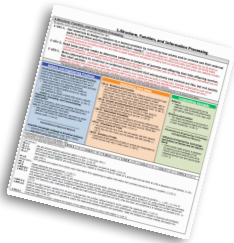
INSTRUCTIONAL PRACTICES



8

THEMES IN THE COMMENTS

Standards



Concerns:

- Changes in content from existing grade level / band
- Misunderstanding role of and connection to NGSS format and resources
- Misunderstanding of role of guidance to actual standards (performance expectations)

Response:

- Modify introduction to standards document and address in guidance materials & roll-out
- Develop cross-walks and training supports for implementation with current standards

9

THEMES IN THE COMMENTS

Concerns:

- Confusion about role of curriculum, standards, and instruction
- Misconceptions about role of state and local school districts with regard to these items
- Concern about how standards will impact state policies that are tied to state assessments

Role of Standards



Response:

- Renewed focus on conveying the role of standards, curriculum, and instruction
- Stress communication about how state and local policies that are based on standards will be implemented

10

THEMES IN THE COMMENTS

Concerns:

- Timing and implementation schedule for assessment
- Significant concerns about needs for professional development and how this will be funded
- Questions about support for resources, models, appropriate instructional practices, etc.

Concerns:

- Timing and implementation schedule for assessment
- Plan for teacher learning and classroom implementation that addresses content, practices, and transitions over time

Implementation

ASSESSMENT



TEACHER
LEARNING

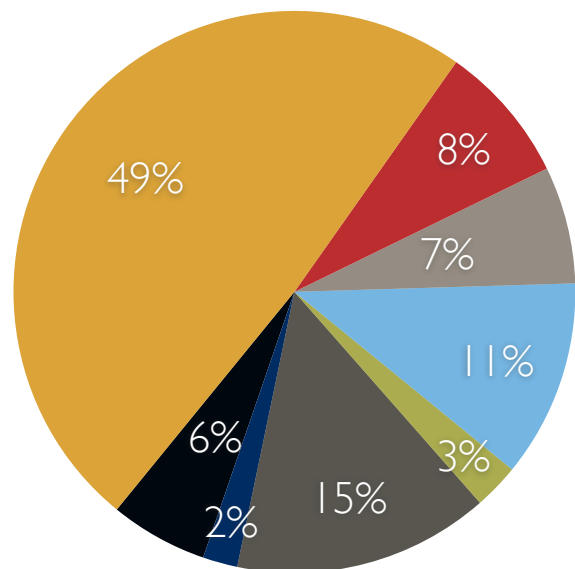
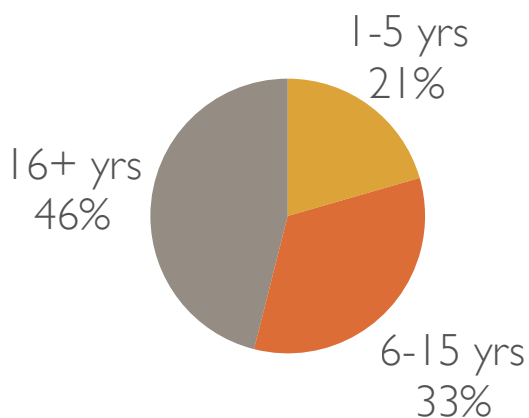
INSTRUCTIONAL
PRACTICES



11

PUBLIC COMMENT SURVEY

Who responded?

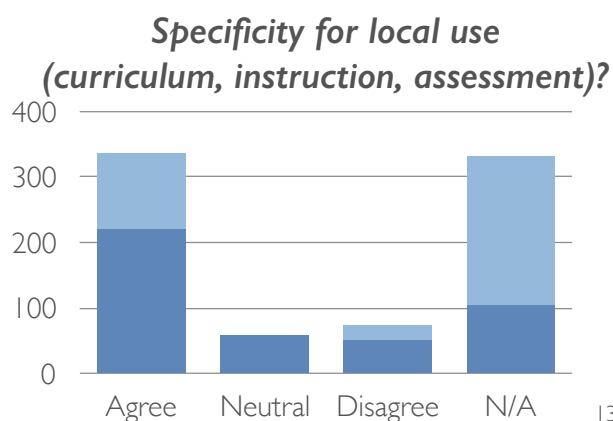
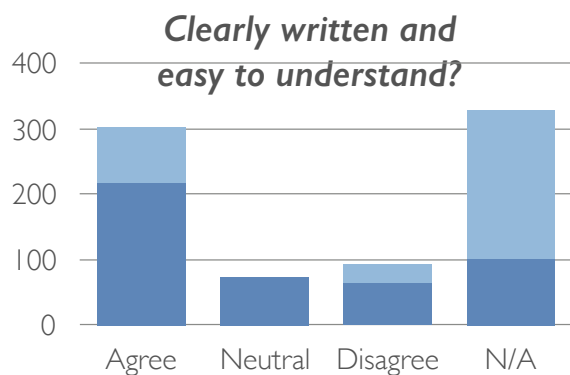


● Teacher
● Teacher Educator
● Student
● Other

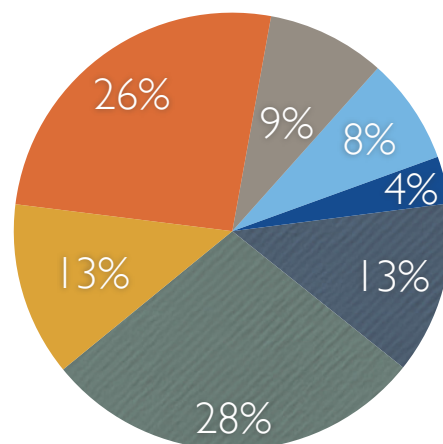
● Administrator
● Parent
● Interested Citizen
● N/A

12

STANDARDS AND GUIDANCE FORMAT



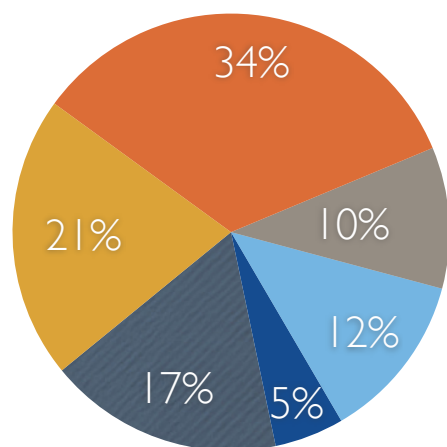
Logical, easy to use format?



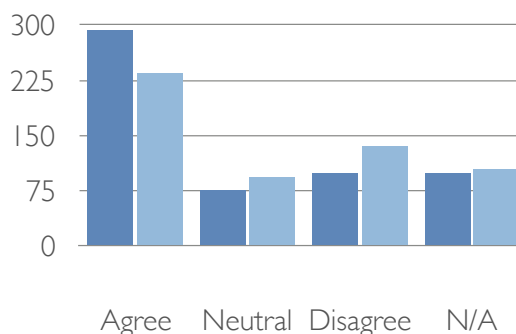
13

STANDARDS USE AND APPROPRIATENESS

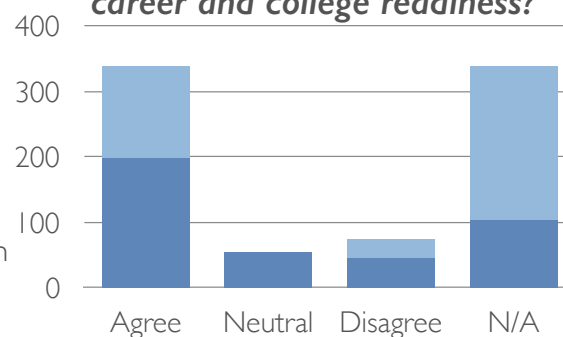
Focus on content and practices that are most important for students to learn?



Measurable and assessable?



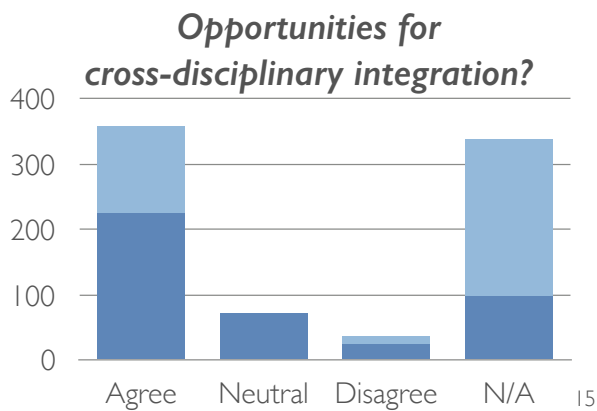
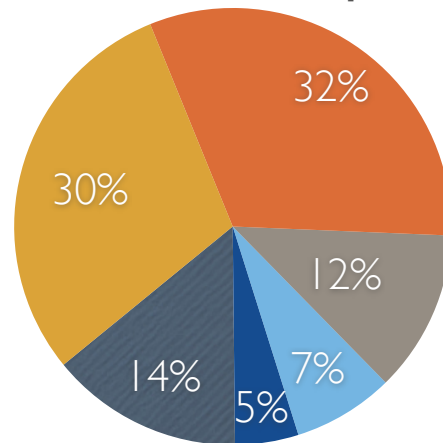
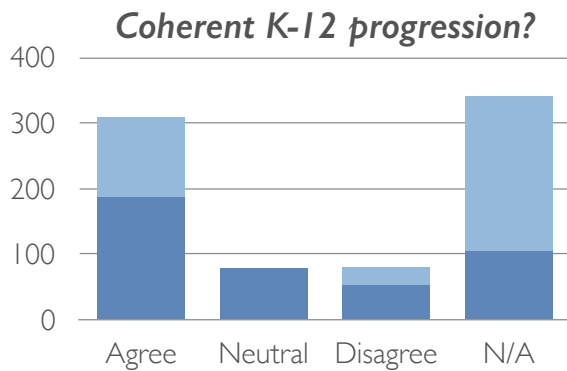
Support development for career and college readiness?



14

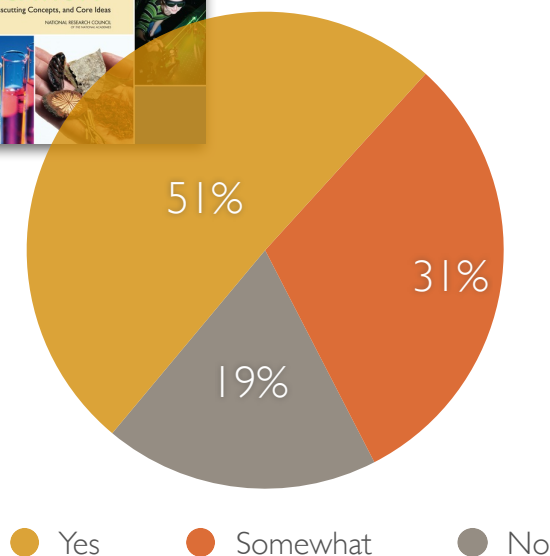
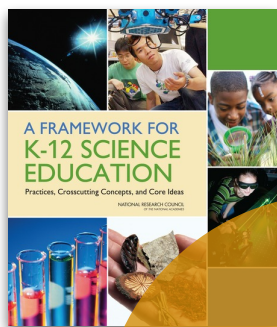
STANDARDS DETAILS

Better prepared if instruction focuses on standards practices?

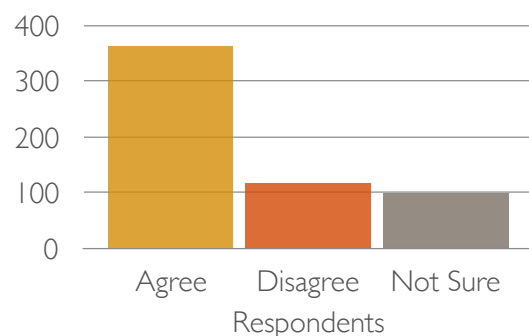


- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Familiar enough

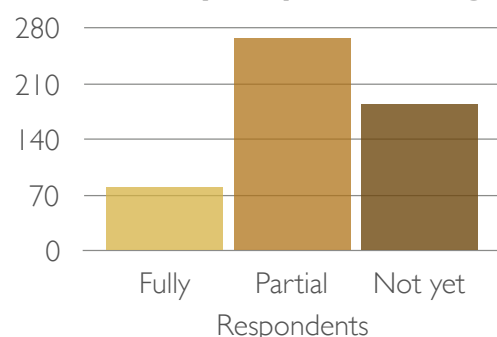
FAMILIAR WITH K-12 FRAMEWORK



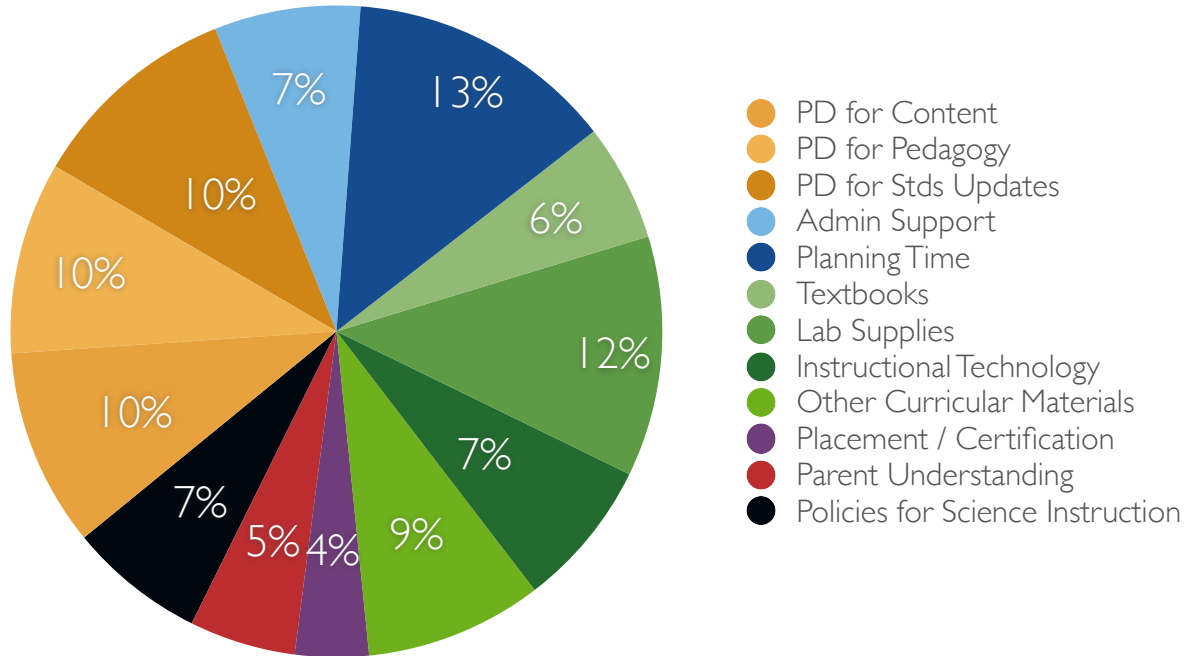
Clear and Coherent Vision?



Already Implementing?



IMPLEMENTATION PRIORITIES

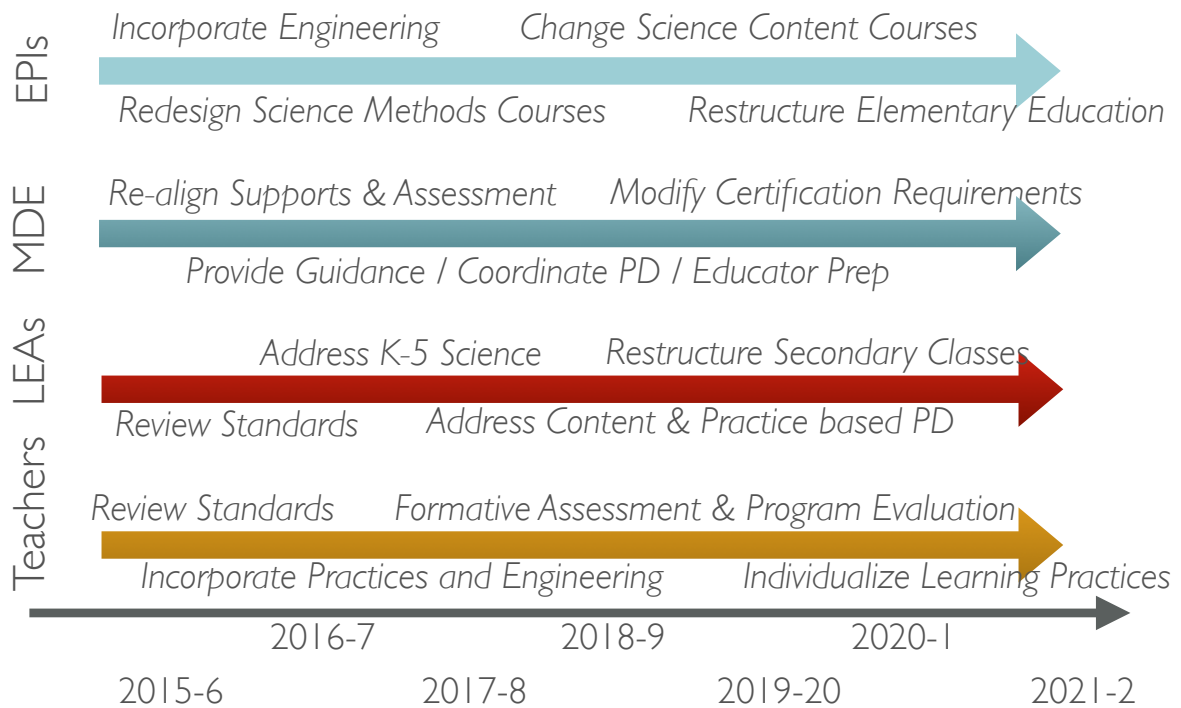


17

IMPLEMENTATION TIMELINE: 2015-16 SCHOOL YEAR



LONG-TERM IMPLEMENTATION PLANS



CONTACTS

Norma Jean Sass
Deputy Superintendent
sassn1@michigan.gov

Linda Forward
Director, OEII
forwardl@michigan.gov

Stephen Best
Assistant Director, OEII
bests1@michigan.gov

